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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/568,777	12/07/1995	RONALD L. SMITH	TI-22187	7439
23494	7590	09/29/2004	EXAMINER	
TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265			MYERS, PAUL R	
			ART UNIT	PAPER NUMBER
			2112	<i>ed</i>

DATE MAILED: 09/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	08/568,777	SMITH ET AL.
	Examiner	Art Unit
	Paul R. Myers	2112

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 28 May 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 15-28 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 15-19, 21-23 and 28 is/are rejected.

7) Claim(s) 20 and 24-27 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

1. Amendment Filed 2/24/03 has been entered. Status of claims is as follows: Claims 1-14 have been canceled by examiners amendment as acknowledged by applicant. Claims 15-28 are pending. Claim 29 has been canceled.

2. Cases which have been decided by the Board of Patent Appeals and Interferences will not be reopened or reconsidered by the primary examiner except under the provisions of § 1.114 or § 1.196 without the written authority of the Director, and then only for the consideration of matters not already adjudicated, sufficient cause being shown.

[49 FR 48416, Dec. 12, 1984, effective date Feb. 11, 1985; revised, 65 FR 14865, Mar. 20, 2000, effective May 29, 2000 (adopted as final, 65 FR 50092, Aug. 16, 2000); revised, 68 FR 14332, Mar. 25, 2003, effective May 1, 2003] This case is submitted to the directors approval to reopen.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 15, 17, 19, 22-23 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Sainton PN 5,249,218.

In regards to claim 15: Sainton teaches a computer (104) comprising: a provision for user input (keyboard); a provision for output (display); a microprocessor (106) coupled to said user input and said output; and an interface (110); coupled to said microprocessor (106), said interface being directly connectable to a corresponding interface (118) in a portable telephone (116), wherein said interface comprises at least one voice channel lead (RX/SPK), one command channel lead (DIO/DATA), and a ground/reference lead (GND) for connection to corresponding leads in a corresponding interface in said portable telephone.

In regards to claim 17: Sainton teaches the command channel being a bidirectional half-duplex signal line (Column 13 lines 10-14).

In regards to claims 19 and 28: Sainton teaches the voice channel used for Data/Audio (Column 12 line 50 to Column 13 line 16 . Sainton also indicates the audio is digitized voice (Column 11 lines 14-33).

In regards to claim 22: Sainton teaches said interface further including a second voice channel lead (TX/TXAF) (Column 3 lines 64-65 Table 2 and Column 13 lines 10-16).

In regards to claim 23: Sainton teaches the voice channel leads facilitating a unidirectional full duplex mode (While Sainton does not use the words unidirectional full duplex Sainton teaches two separate wires one input and one output RX and TX. Which are for receiving and transmitting data respectively Column 5 lines 59-60 and Column 10 lines 50-60 thus unidirectional and transmits and receives data thus full-duplex Column 17 lines 32-35)

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 16 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sainton PN 5,249,218 in view of Kyu et al PN 4,225,919.

In regards to claims 16 and 21: Sainton teaches the voice channel being unidirectional full-duplex (With TX/TXAF being the second channel See figure 3) instead of bidirectional half-duplex. Kyu et al teaches two basic types of data links are well known, including both bidirectional half-duplex and unidirectional full-duplex (See figures 2A and 2B and Column 7 lines 39-42). It would have been obvious to a person of ordinary skill in the art at the time of the invention to use bidirectional half-duplex because this would have decreased the number of required signal lines (As shown in Figure 2A with only 1 signal line and Figure 2B with 2 signal lines).

7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sainton PN 5,249,218 in view of Dent et al PN 5,581,597.

In regards to claim 18: Sainton teaches the interface described above. Sainton does not teach the interface including a power line. Dent et al teaches (Column 8 lines 52-57) a cellular terminal (such as a cellular telephone) that is powered by an external signal line while the

cellular terminal is "parked". It would have been obvious to include a power signal line because this would have allowed for recharging the cell phone (Figure 3 battery charger 153).

Allowable Subject Matter

8. Claims 20, 24-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

9. The following is a statement of reasons for the indication of allowable subject matter: The examiner notes Sainton teaches a single lead set (RX/SPK in and TX/TXAF out) which handles both voice and data. The examiner found no prior art that discloses the voice channel lead and the data channel lead as separate leads and that taught a second command channel.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul R. Myers whose telephone number is 703 305 9656. The examiner can normally be reached on Mon-Thur 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703 305 4815. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRM



PAUL R. MYERS
PRIMARY EXAMINER



Approved
Stewart J. Levy
STEWART J. LEVY, DIRECTOR
TECHNOLOGY CENTER 2100